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University of Pennsylvania and Zoological Station

Dr. Ch. Dolley, Rochester....	15	1	85	18	6	85
Dr. W. Patten, Boston (Zool.						
St. Table, 14/4/85 18/6/85..	14	4	85	23	4	85

Davis Table.

Dr. H. I. L. Russell.....	20	3	91	6	7	91
Miss I. B. Platt, Boston	7	4	91	2	7	91
Prof. E. B. Wilson, Phila.....	11	1	92	1	7	92
Dr. I. W. Field, Baltimore ..	5	10	92	29	3	93
Dr. G. H. Parker, Cambridge,						
Mass	10	3	93	1	6	93
Prof. C. W. Hargitt, Syracuse	10	3	93	1	6	93
Prof. J. Gardiner, Boulder....	1	10	94	1	3	95
Dr. Ida Hyde, Chicago.....	12	3	96	1	5	96

*Smithsonian Institution.**

Dr. G. Fairchild, Washington.	16	11	93	17	3	93
Dr. W. H. Wheeler, Chicago...	30	12	93	14	4	94
Prof. H. C. Bumpus, Providence	25	1	94	2	4	94
Dr. L. Murbach, Berkey, Ohio.	25	4	94	23	6	96
Prof. T. H. Morgan, Bryn						
Mawr	29	10	94	15	7	95
Prof. Herb. Osborne, Ames ...	15	12	94	7	3	95
Mr. W. T. Swingle, Washing-						
ton	10	3	96	30	5	96
Dr. MacFarland, California..	11	3	96	24	3	96
Prof. F. H. Herrick, Cleveland,						
Ohio	6	11	96	4	12	96
Dr. E. Meek, Washington	19	3	97	5	5	97
Dr. H. Jennings, Michigan....	10	4	97	25	6	97
Dr. H. Neal, Cambridge, Mass.	16	4	97	25	5	97
Mr. B. M. Davis, Chicago....	29	10	97	3	12	97
Prof. H. W. Conn, Brooklyn..	11	3	98	24	4	98
Prof. D. Mottier, Indiana Univ.	12	3	98	18	4	98
Mr. W. T. Swingle, Washington.	22	3	98	28	4	98
Dr. J. R. Gerould, Dartmouth.	3	11	98			

Harvard College.

Mr. E. Rice, Middletown....	23	3	94	12	5	94
Dr. C. Child, Chicago.....	4	6	94	6	12	94
Prof. W. E. Ritter, Berkeley..	14	9	94	29	12	94
Prof. J. Reighard, Michigan..	2	4	95	3	6	95
Prof. C. C. Nutting, Iowa....	1	6	95	17	8	95
Dr. R. T. Harrison, Baltimore.	1	2	96	1	5	96
Dr. R. C. Coe, New Haven....	17	3	96	6	5	96
Dr. A. Weyssse, Boston.....	19	3	96	18	6	96

Columbia University, One-Half Year (Resp. University Table).

Dr. A. Matthews, New York..	19	3	96	28	6	96
Dr. J. Graham, New York....	9	4	97	14	6	97
Dr. E. O. Hovey, New York..	3	11	97	4	12	97

Woman's College Table.

Prof. Miss M. Willcox, Welles-						
ley College.....	9	4	98	20	5	98
Miss Peebles Florence.....	2	9	98	19	11	98

The three tables now being supported in this country are as follows :

Smithsonian Table.—Applications should be addressed to Professor S. P. Langley, Smithsonian Institution, Washington, D. C.

University Table.—The main subscription is by Wm. E. Dodge, Esq., of New York, in the name of Columbia University. The American Society of Naturalists has also subscribed \$50 towards this table for the year 1899. Applications should be addressed to Professor T. H. Morgan, Bryn Mawr, Pa.

Women's College Table.—Supported by subscriptions from colleges, associations and private individuals.

Applications should be sent to Miss Ida H. Hyde, 91 Langdon St., Cambridge, Mass.

Students and investigators intending to visit the Station should apply to Dr. Anton Dohrn for a printed circular giving them all the necessary information as to preparation and the procedure to be observed on arrival.

SCIENTIFIC NOTES AND NEWS.

At a recent meeting of the Board of Trustees of the University of Pennsylvania the Provost was authorized to extend an invitation to the American Association for the Advancement of Science to hold its meeting in 1900 at the University.

THE medical department of Johns Hopkins University has sent a party to Manila to study the tropical diseases prevalent there in the hot season. The party includes Dr. Simon Flexner, recently elected professor of pathology in the University of Pennsylvania, and Dr. L. F. Barker, associate professor of anatomy at Johns Hopkins University.

THE field work of the United States Biological Survey during the present season will be mainly in Texas and California. Vernon Bailey, chief field naturalist of the Survey, has begun work on the coast of Texas, and will work westerly to and across the Staked Plains. Later he will join Dr. Merriam in California.

Nature states that Mr. J. Stanley Gardiner, Balfour student of the University of Cambridge, and Mr. L. Borradaile have gone to the Island of Minikoi, situated between the Maldive and

Laccadive Islands, to study the formation of coral reefs, with special reference to the depth at which the reef-building coral organisms live, the food of the coral polyps, the influence of currents upon coral formations and upon the distribution of life near them, and the inter-relationship existing between the various organisms which occur on a coral reef. It is also proposed to survey the Maldive Islands, with a view to obtaining information as to their mode of formation. Mr. C. F. Cooper will join the expedition during the summer.

PROFESSOR T. E. THORPE has been elected to succeed Professor Dewar as President of the Chemical Society, London, while Professor W. A. Tilden succeeds Professor Thorpe as treasurer. Dr. A. Scott has been elected one of the secretaries.

THE Seventh Dutch Scientific and Medical Congress opened its sessions at Harlem on April 7th. Professor Ramsay made an address before the Section of Chemistry on 'The New Elements.'

THE first *conversazione* of the Royal Society will be held at Burlington House on Wednesday, May 3d, at 9 p. m.

It is proposed to erect a memorial statue of Sir Thomas Browne in Norwich, where the author of the *Religio Medici* practised as a physician for forty-six years. It is estimated that the statue will cost about £2,000, towards which the sum of £200 has been subscribed.

A PLAN has been proposed for erecting a monument to Dr. Jean Hameau, of La Test, who is said to have discovered and applied the principles of microbic disease forty years before Pasteur.

THE death is announced of Dr. Franz von Hauer, formerly head of the Austrian Geological Survey, at Vienna, aged seventy-three years; of Dr. Max Durand-Fardel, President of the French Society of Hydrology, and of the Hon. F. F. Thompson, of New York, who gave Williams College scientific laboratories costing \$180,000, and generous gifts to other educational institutions.

WE regret also to record the death of Dr. George Henry Rohé, of Maryland, at New

Albany, La., while in attendance at the recent National Prison Congress. Dr. Rohé was at the time of his death President of the American Public Health Association.

THE death, at the age of 81 years, occurred on April 7th, of Mr. Joseph Stevens, the well-known geologist and antiquarian. Though a practising physician, he found time to make discoveries of neolithic and paleolithic implements and fossils, many of which are deposited in the Reading Museum, of which he was long honorary curator. He was the author of numerous publications on anthropological and archæological subjects.

MISS E. BROWN, to whose death we recently referred, has bequeathed one of her observatories with all the contents, and, in addition, £1,000, to the British Astronomical Association. Miss Brown was Director of the Solar Section of the Association.

THE Barnard Botanical Club will give an exhibit of the work of the department of botany on the afternoon of April 28th. It is hoped that at that time the bronze tablet, given by the Club in memory of the late Dr. Gregory, will be in place. It bears the following inscription: "This laboratory, for the study of physiological botany, is dedicated to the memory of Emily L. Gregory, Ph.D., first professor of botany in Barnard College, from its opening, in 1889, until her death, in 1897."

MR. W. S. LEAN has bequeathed £50,000 to the British Museum for the extension of the library and reading room.

BY the will of the late Sir William Jenner, £10,000 is bequeathed to the Royal College of Physicians of London.

THE Hon. Stevens Salisbury has presented to the Worcester Natural History Society the collection of minerals and fossils made by Mr. John Gilman.

ARRANGEMENTS have been made for the establishment of an anthropological museum at the University of Aberdeen. Several collections have already been presented to the University.

A SUBSCRIPTION has been opened in Scotland for erecting a stone over the tomb of Professor

Macgillivray, the ornithologist, in the New Calton cemetery, Edinburgh, and for founding a Macgillivray gold medal in Aberdeen University as a prize to the best student in zoology, botany or geology.

It is stated in *Nature* that some recognition will shortly be made of the services rendered to geological science by the Rev. Thomas Wiltshire, professor emeritus of geology in King's College, London. Of late years Mr. Wiltshire's labors have not been of a nature to bring his name prominently before the public, but he has been toiling quietly as the honorary Secretary and Editor of the Paleontographical Society. That Society has now published fifty-two quarto annual volumes, and some thirty of these have been edited by Mr. Wiltshire. These volumes each contain forty or fifty plates of fossils, and two hundred or more pages of letter press, dealing with organic remains of all classes. Great credit is due to Mr. Wiltshire, and the members of the Paleontographical Society (of which Dr. Henry Woodward, F.R.S., is President, and Mr. R. Etheridge, F.R.S., Treasurer) have decided to present him with a testimonial, towards which subscriptions (not limited to members of the Society) are now being received.

It is stated that the French authorities are so gratified with the success of the wireless telegraphy demonstrations between Boulogne and the South Foreland that an attempt to telegraph from Paris is proposed, and that the Eiffel Tower will be the French terminal. The English terminal will remain at the South Foreland. The direct distance between the two points is about 230 miles.

WE have received the first part of the first volume of the Proceedings of the Washington Academy of Sciences issued on April 14, 1899. It consists of the first annual report of the Secretary, Mr. G. K. Gilbert. This is an interesting account of the foundation of the Academy, including the events antecedent to its formation, most of which have been recorded in this JOURNAL. It is said that the Proceedings will be continued with the publication of scientific papers.

THE Geological Society of Washington has issued the address of the retiring President, Mr. Arnold Hague, on 'Early Tertiary Vol-

canoes of the Absaroka Range,' originally published in this JOURNAL, together with an abstract of the minutes of the Society for the years 1897 and 1898. In 1898 forty-one papers were presented, the average attendance at the meetings being thirty-five. The present officers of the Society are: President, Whitman Cross; Vice-Presidents, J. S. Diller, C. W. Hayes; Treasurer, M. R. Campbell; Secretaries, T. W. Stanton, David White; Members-at-Large of the Council, S. F. Emmons, Geo. P. Merrill, Bailey Willis, N. H. Darton; A. H. Brooks.

LORD KELVIN has just prepared a report on some interesting investigations made by Professor Archibald Barr and himself in Edinburgh, Bradford and Oldham on the subject of the destruction of town refuse. According to the *London Times* the report is not only of great interest to local authorities, but to the general public. In one instance he experimented on damp ashpit refuse containing a large proportion of night soil and vegetable matter from markets and shops. This was consumed without the slightest trace of smoke. In addition to this solution of the smoke difficulty the residual products proved to be of great commercial value. In another case the steam produced by the process of destruction was utilized for the driving of electric lighting machinery and other power purposes. No coal or coke whatever was employed, and in this instance also there was an entire absence of smoke. Lord Kelvin's report demonstrates that public bodies have no longer any excuse for referring to 'waste products,' but have within their reach the means of turning the most unpromising kinds of refuse to a highly profitable account.

THE Twenty-Seventh Annual Meeting of the American Public Health Association will be held at Minneapolis, Minn., beginning October 31st, and continuing until November 4, 1899. The Executive Committee has selected the following topics for consideration: (1) The Pollution of Water Supplies; (2) The Disposal of Garbage and Refuse; (3) Animal Diseases and Animal Food; (4) Car Sanitation; (5) Steamship and Steamboat Sanitation; (6) The Eti-

ology of Yellow Fever; (7) The Relation of Forestry to the Public Health; (8) Demography and Statistics in their Sanitary Relations; (9) The Causes and Prevention of Infectious Diseases; (10) Public Health Legislation; (11) The Cause and Prevention of Infant Mortality; (12) The Period during which Each Contagious Disease is Transmissible and the Length of Time for which each Patient is Dangerous to the Community; (13) Sanitation, with special reference to Drainage, Plumbing and Ventilation of Public and Private Buildings; (14) Method of International Arrangement for Protection against the Transmission of Infectious Diseases; (15) Disinfectants; (16) To Examine into the existing Sanitary Municipal Organizations of the Countries belonging to the Association with a view to Report upon those most successful in Practical Results; (17) Laboratories; (18) To define What Constitutes an Epidemic; (19) National Leper Home; (20) Revision of Classification of Diseases; (21) Dangers to the Public Health from Illuminating Gas Leakage.

A CORRESPONDENT of the London *Times* calls attention to a passage in *The Spectator* (No. 241, 1711) which is interesting in connection with wireless telegraphy and telegraphy in general. The passage read thus: "Strada in one of his Prolusions gives an account of a chimerical correspondence between two friends by the help of a certain loadstone, which had such virtue in it that if it touched two several needles, when one of the needles so touched began to move, the other, though at never so great a distance, moved at the same time and in the same manner. He tells us that the two friends, being each of them possessed of one of these needles, made a kind of dial-plate, inscribing it with the four and-twenty letters in the same manner as the hours of the day are marked upon the ordinary dial-plate. They then fixed one of the needles on each of these plates in such manner that it could move round without impediment so as to touch any of the four-and-twenty letters. Upon their separating from one another into distant countries they agreed to withdraw themselves punctually into their closets at a certain hour of the day and to converse with one another by means of this their invention. Accordingly when they were

some hundred miles asunder each of them shut himself up in his closet at the time appointed, and immediately cast his eye upon his dial-plate. If he had a mind to write anything to his friend he directed his needle to every letter that formed the words which he had occasion for, making a little pause at the end of every word or sentence to avoid confusion. The friend, in the meanwhile, saw his own sympathetic needle moving of itself to every letter which that of his correspondent pointed at. By this means they talked together across a whole continent, and conveyed their thoughts to one another in an instant over cities or mountains, seas or deserts."

UNIVERSITY AND EDUCATIONAL NEWS.

IN its session just closed the Legislature of Nebraska made provision for the University of Nebraska for the biennium ending March 31, 1901, as follows: University salaries, \$230,000; University expenses (including U. S. funds for agricultural and mechanic arts), \$172,500; buildings and other improvements, \$93,500.

THE Queen has appointed the Earl of Kimberley, K.G., to be Chancellor of the University of London, in lieu of the late Lord Herschell.

THE University of Chicago has awarded eighty-one fellowships, of which the following are given in the sciences: *mathematics*, G. A. Bliss, H. Lloyd, W. Findlay, D. N. Lehmer, J. H. MacDonald; *astronomy*, C. E. Rood, W. S. Adams, A. C. Lunn; *physics*, H. O. Murfee, R. F. Earhart, C. W. Chamberlain, F. Reichmann; *chemistry*, H. E. Goldberg, W. McCracken, M. D. Slimmer, S. F. Acree; *geology*, W. W. Atwood, W. N. Logan, R. George, W. T. Lee, W. G. Tight; *zoology*, H. E. Davies, R. S. Lillie, F. M. Guyer, H. H. Newman; *botany*, A. C. Moore, B. E. Livingston, S. M. Coulter, F. M. Lyon; *physiology*, R. R. Rogers, W. E. Garrey, R. W. Webster; *neurology*, D. M. Shoemaker; *sociology*, R. G. Kimble, A. T. Freeman, A. D. Sorenson; *anthropology*, A. W. Dunn; *pedagogy*, W. A. Clark; *philosophy and psychology*, H. W. Stuart, H. B. Thompson, R. L. Kelly, H. H. Bawdin.